PHENIX WEEKLY PLANNING



12/08/2011 Don Lynch



TECHNICAL NUPPORT 10

This Week

•	Continue RPC1 N commissioning
•	RPC1 S Installation Done, Begin RPC1 S commissioning
•	Continue MuTr station 3 North Clamp-on re-capacitors in MMN
•	FVTX rack assembly Done?
•	Continue design and procurement for RPC3 shielding
•	Remove hanging platform Done
•	Reconfigure scaffold for RPC1S survey Done
•	Move VTX/FVTX West to 1008 Done
•	Install VTX/FVTX West Done
•	Move VTX/FVTX East to 1008 Done
•	Survey RPC1S Done
•	Survey and align CM and beampipe Done
•	Survey VTX/FVTX West
•	Install FVTX racks
•	Install VTX/FVTX West cables and services
•	BBC South installation Done
•	MPC South troubleshooting
•	Install VTX/FVTX East
•	Survey VTX/FVTX East

Install VTX/FVTX East cables and services

Continue prep of EC for roll in



TECHNICAL NUPPORT 10

Next Week

- Complete Survey VTX/FVTX East and overall
- · Continue RPC1 N & S commissioning
- · Complete MuTr station 3 North Clamp-on re-capacitors in MMN
- · Complete VTX/FVTX cabling & fiber installation
- Install new MPC racks
- · Remove all scaffolding from IR
- · Remove manlift and plates from IR
- · Move MuID collars to IR
- Move 12 ton rolling cart to AH winter home
- · Roll in EC
- Prep EC for run (platforms, ladder, dumb waiter, electric, fiber, gas



General Tasks

2011 Shutdown

1/17/2012

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Run 12 cooldown

		S . S . E
•	CM alignment stops	Design Done, Fabrication
		in Progress
•	Reinstall BBC South	12/7
•	MPC S troubleshooting	12/8
•	Upgrade AH crane	After 1/17/2012
•	RPC3 Shielding	Large Blocks placed
		Rail extensions for garage
		in progress
•	RPC Hodoscope	Mech Installation Done
		Cabling
•	Prep for EC roll in	_
	· EC prep	Done
	 Remove manlifts and plates 	12/14
	 Preposition MuID collars 	12/14
•	reinstall MMS east vertical lampshade	Done
•	CM alignment & BP Survey (Final after VTX/FVTX installed)	12/8
•	MPC electronics rack upgrade installation	12/14
•	Roll in EC	12/15
•	Prep IR for run	12/16
•	IR run prep, Pink/Blue/White sheets	12/19-1/6/2012
•	New and upgraded full detector commissioning	In progress to 1/16/2012



PH***ENIX**

TECHNICAL NUPPORT 10

VTX/FVTX Tasks

	EVTY /VTY Chillen leak/soutomination improvements	Nama
	FVTX/VTX Chiller leak/contamination improvements	Done
	FVTX west assembly and QA tests	Done
	FVTX west pre-survey	Done
	VTX pixel/strip pixel repairs	Done
	VTX west re-assembly & QA tests	Done
	FVTX east assembly and QA tests	Done
•	FVTX west integration with VTX west	Done
•	Move FVTX east to Chem lab	Done
•	FVTX east pre-survey	Done
	VTX east reassembly and QA tests	Done
•	FVTX east integration with VTX east	Done
	FVTX/VTX east half survey	Done
	FVTX/VTX west half survey	Done
	FVTX/VTX complete alignment survey in Chem. Lab	Done
	Install FVTX fibers from rack room thru AH/sill to CM	Done
	Final FVTX/VTX QA tests and thermocouple wiring	Done
	Move west FVTX+VTX half to 1008	Done
	Move east FVTX+VTX half to 1008	Done
	Install FVTX/VTX west detectors (mechanical)	Done
	FVTX racks ready	Done ?
	Survey FVTX/VTX west detectors (mechanical)	12/8
	Install FVTX racks on bridge	12/8
	FVTX/VTX west cable routing, plumbing, QA tests	12/9
	Install FVTX/VTX east detectors (mechanical)	12/9
		12/9
	Survey FVTX/VTX east detectors (mechanical)	
	FVTX/VTX east cable routing, plumbing, QA tests	12/13
•	FVTX/VTX final electrical/fiber/plumbing/monitoring installation	12/16





TECHNICAL SUPPORT 20

RPC Tasks

•	Install and test RPC1 North including all cables and plumbing	Done
•	Build 1 new rack, upgrade existing RPC1 prototype	
	rack and install on Bridge	Done
•	Move CM north to run position	Done
•	Install scaffolding in station 1 south	Done
•	Modify BBCS cable routing	Done
•	Install RPC1 S	Done
•	RPC3 HV Distribution modifications, gas distribution	Done
	modifications, PS calibration HV and services testing	
•	Remove hanging platforms	Done
•	RPC1 north and south commissioning	In progress
•	Remove all scaffolding	12/12



MuTr Tasks

2011 Shutdown

TECHNICAL SUPPORT 20

• Station 1 North Upgrade (remove, recapacitate, clean, reinstall)

Done

Station 2 North (north and south sides) and South (south side only) upgrade – remove dry air headers, modify headers, install terminator boards, reinstall modified headers

Done

MuTr North & South Station 3 Re-cap clamps

• Install work platforms (north and south for capacitor clamp installation to lower octants of station 3)

Done

· Install new capacitor clamps in lower octants

(South Done

North In Progress)

7/25-12/21

Install new dry air manifolding to Cap clamp headers

(South Done

North In Progress)

11/21-12/21

· Remove work platform & steps from MMS

Done

· Re-install MMS east vertical lampshade

Done

Remove work platforms from MMN

12/21

	Electronics Group Tasks	2011 Shutdown
•	MPC electronics replacement	ZOII Shurdown
	• Build racks	12/9
	 Install & wire racks 	12/16
	· Test	12/31
•	RPC hodoscope installation	
	• Run cables	12/31
	 Test 	12/31
•	RPC1 Wiring	
	· Install cables	Done
	 Test 	Done
•	Run 12 restoration of detectors	
	 EC rewire (power/cable/fiber) 	12/16
	 CM restore magnet power, cooling 	12/16
	 WC upgrades 	12/16
	 Pink/White/Blue Sheets 	1/6/12
•	VTX restoration	
	 Reinstall cables, fiber, cooling, monitoring 	12/12
•	FVTX installation and cabling	
	 Racks: assemble, test, install on bridge 	12/8
	 Fiber: install, terminate and connect 	12/13
	 LV sensor and wedge: fabricate, install, terminate and conne 	ct 12/13
•	Other ???	1/17/2012





TECHNTCAL SUPPORT

Miscellaneous Gas & Cooling System Tasks

Replace MuTr flowmeters (north and south)
 north done, south by - 12/31

Replace tygon lines (80 lines) from the cooling
manifolds to the detector with 1/4" ID teflon tubing.

Lines ready for installation

Insulate whatever Big Wheel chiller lines in the IR
 that we can get to to reduce sweating in the IR.
 AH lines are done

Build a system to clean the Novec during the run.
 In progress

Pixel cooling upgrade for 10° C without impacting
 strip-pixel cooling.
 Ready for installation

Replace all cooling RTD transmitters
 Parts here ready for installation

Upgrade Mutr, MuID and DC/PC computers in GMH by 12/15

RPC station 1 gas panels: (north and south)

RPC Station 1 supply lines and exhaust (connecting to existing lines).

Plumbing new supply for R134A, incl. heat tape and insulation.

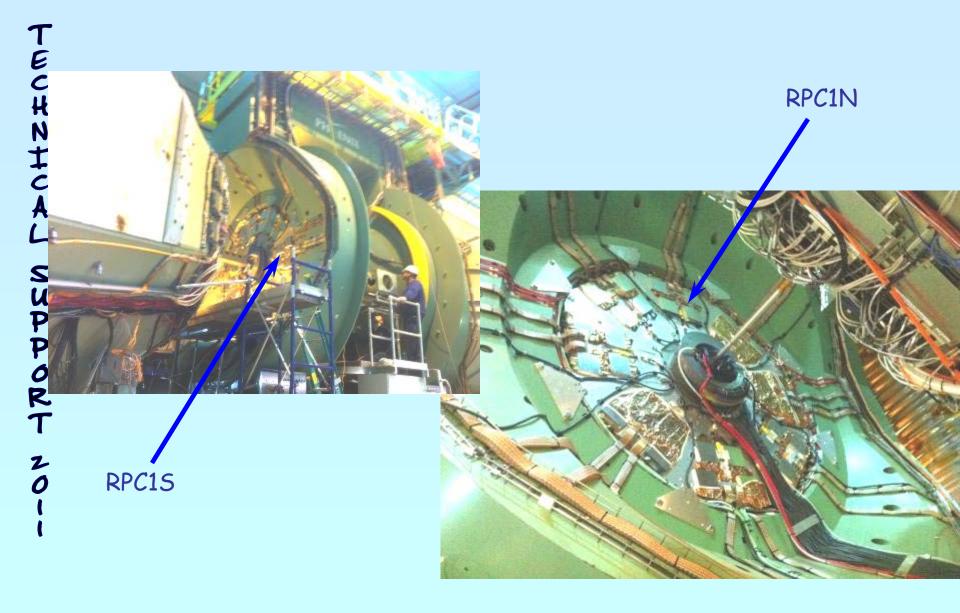
MuID panel circulation. Class one div 2 fans.
 Design in progress?

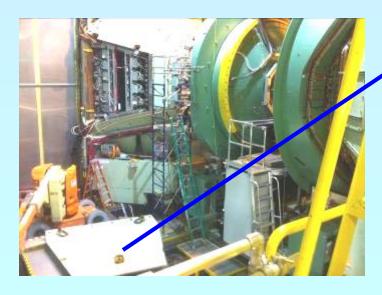
Dry air for Mutr HV work. (north and south)
 South done, North in progress

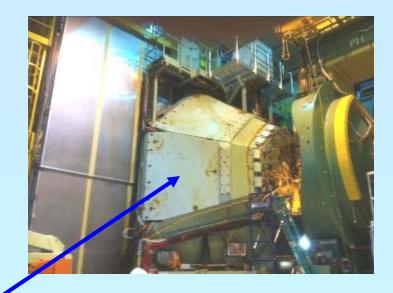
Dry air filters to be replaced before run starts.

Other ???

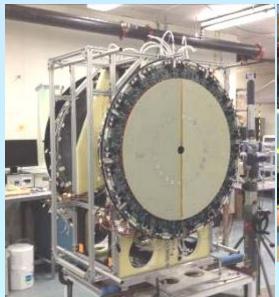






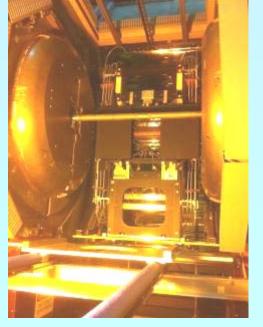








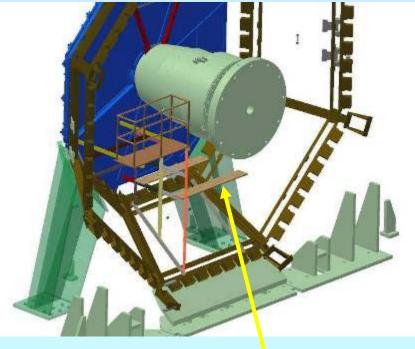




Gas Mixing House East Annex for R134A bottles close to GMH.

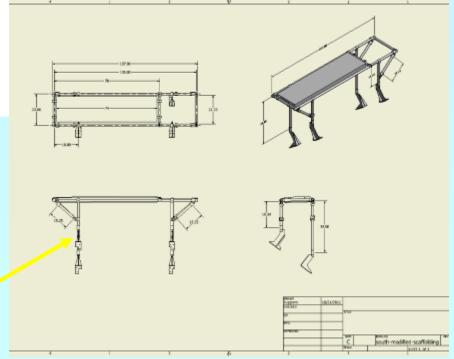


Station 2/3 S/N Access



North Magnet Platform

South Magnet Platform Out and Done





MPC new electronics racks



Infrastructure Issues

Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall, over door between control room and elect. ass'y room, southeast corner of IR and laser room.







 Electronics test/assembly roomto-parking lot door (does not open/close/lock properly needs to be replaced)

From Ray Karol:

 Both north and south tunnels will be ODH1 at the start of run 12. Anyone needing access (e.g. RPC3's) will need a film badge, ODH1 web training, ODH practical training, and physicals up to date.

Per John Maraviglia of CAD: The practical training for ODH1 (which for most of us expires soon and will need to be retaken before run 12 cooldown in order to be able to access either the north or south tunnel and RPC3;'s) wil be given in Snyder Hall, building 911 on one of the following days:

12/8/11 (tomorrow) at 11:15 AM 12/911 (Friday) at 11:15 AM 12/16/11 (NextFriday) at 11:15 AM The class takes about a $\frac{1}{2}$ hour.

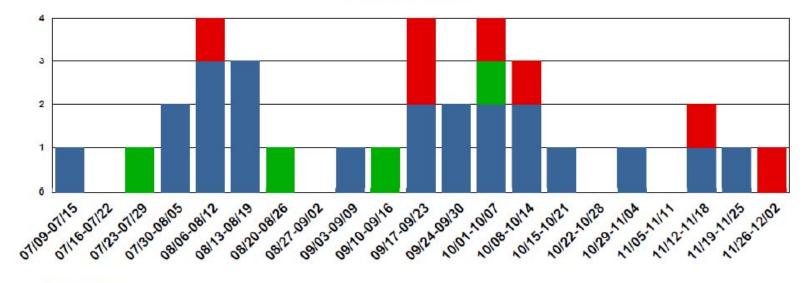
There will be additional classes scheduled in early January for those who can't make these 3 sessions.

- PHENIX annual safety review 11/22/11 Rob, Paul, Steve and Don to prepare as usual.
- Mods to WC platforms: gates and railings plan needed





Injuries Per Week As of 12/2/2011



Injury Status:

FY12 YTD: DART – 4, TRC – 5, First Aid – 8 FY11: DART – 27, TRC – 42, First Aid – 45 FY10: DART – 19, TRC – 33, First Aid – 52

Recent Injuries		
11/29/11	DART	A subcontractor fell approximately 16 feet off a scissor-lift in Bld. 701.
11/22/11	First Aid	An employee tripped and fell while climbing a staircase on the way into work. At the OMC, first aid was given.
11/21/11	Info Only	An employee tripped and fell into a glass door, damaging the door. The employee has no apparent injury. At the OMC, he was examined and returned to normal duties.
11/18/11	First Aid	An employee injured a knee while ascending a staircase. At the OMC, first aid was given.
11/16/11	DART	An employee experienced lower back pain while trying to open a door. After notifying their supervisor, the employee kept working. This is recordable and a DART case due to lost time.

Recent Events		
12/2/11	Non- reportable	An employee reporting to work at CFN Building 735 noticed a water leak from Room 1L-23 on the 1st floor upon approaching the room. A small fitting attached to a flowmeter at the room wall failed, allowing a water leak to begin sometime between $^{\sim}1700$ last night and this morning. Fire/Rescue responded to help with isolation of the water leak.
11/30/11	Non- reportable	At the ISB construction site, an unknown buried tank was found. It is filled with a liquid having a sweet organic smell. This is an old chemistry building site that was demolished in 1972. Further investigation is underway and this will be updated as more information is transmitted.
11/25/11	Non- reportable	A worker trying to fill a liquid nitrogen dewar outside building 820 noticed the valve was broken. Liquid nitrogen boil-off was released to the outside. The dewar was kept outside. Update 11/28/11: The valve on the storage buggy outside the building was frozen open. The buggy was emptied, and the valve was able to be closed when it warmed. Evaluation of the stuck valve is in progress.

Where To Find PHENIX Engineering Info



Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm